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Application No.	Applicant(s)
10/781,492	NIEMINEN, ESKO
Examiner	Art Unit
DON N. VO	2611

Notice of Allowability	Examiner	Art Unit	Unit	
	DON N. VO	2611	<u>.</u>	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSE or other appropriate con IGHTS. This application	D in this application. If not includent munication will be mailed in due	led course. THIS	
1. \boxtimes This communication is responsive to <u>the application filed or</u>	<u>n 2/18/2004</u> .			
2. The allowed claim(s) is/are <u>1-5</u> .				
Acknowledgment is made of a claim for foreign priority unally All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).	been received. been received in Applic	ation No	ation from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		file a reply complying with the re	equirements [†]	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers		view (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) including changes required by the attached Examiner' Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37	on the drawings in the front (not the CFR 1.121(d).	e back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of	f Informal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper	v Summary (PTO-413), No./Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>5/24/04</u> 	7. 🗌 Examine	er's Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examine	er's Statement of Reasons for All	owance	
. Sieregieur material	9. 🗌 Other _	 .		

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

References Bickerstaff (US 2002/0162074), Kim (US 6,504,882), Agazi et al (US 2066/0245487), and Kaewell, JR. (US 2006/0262832) are cited because they are pertinent to the Trellis decoder. However, none of the cited references teaches or suggests a decoder for a trellis code comprising, in combination, the arrangements of a path metrics calculation unit for calculating path metrics over at least two trellis columns in a trellis, the path metrics calculation unit including an input interface for Old path metrics and an output interface for new path metrics; a memory for storing path metrics of the trellis, the memory including a read interface for reading old path metrics from the memory and a write interface for writing new path metrics into the memory; an input multiplexer connected between the read interface of the memory and the input interface of the path metrics calculation unit; an output multiplexer connected between the output interface of the path metrics calculation unit and the write interface of the memory; and, especially, a control for controlling configuration of the input multiplexer and configuration of the output multiplexer on the basis of states of the trellis, which state of the trellis defines the way the old path metrics and the new path metrics relate to each other, whereby internal configuration of the path metrics calculation unit remains the same for different code constraint lengths.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/781,492 Page 3

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on Mon-Fri (9:00AM - 6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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